Garcia 10_635696

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FILE COVERS 1907 - 28 Sep 2004 VOL 141 ISS 14 FILE LAST UPDATED: 27 Sep 2004 (20040927/ED)

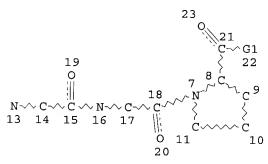
This file contains CAS Registry Numbers for easy and accurate substance identification.

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STR



VAR G1=O/N NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 16

STEREO ATTRIBUTES: NONE

L7 248833 SEA FILE=REGISTRY SSS FUL L3

L11 STR

G2-\(\sigma \sigma \cdot \G2 C-\cap G3-\cap CH3 CH_Y G6 CH\(^\) O\(^\) G6 G2~~ C~~ G6 28 @29 30 @31 32 33 @34 35 @36 37 38 39 @40 41

C..... 0 0-\(CH2 \cdot C \) CH2·G7-\(^\) C=== 0 CH CH CH @42 43 @44 45 @46 47 @48 49 @50 51 @52 53 @54 55

VAR G1=OH/24/NH2/26/29

VAR G2=ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/31

REP G3 = (3-3) C

VAR G4=CH2/34/36/40

VAR G5=CH2/34

VAR G6=OH/ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/31

REP G7 = (0-2) CH2

VAR G8=42/44-5 46-13/48-5 50-13/52-5 54-13/54-5 52-13/50-5 48-13/46-5 44-13

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 55

STEREO ATTRIBUTES: NONE

301 SEA FILE=REGISTRY SUB=L7 SSS FUL L11 L12L17

177 SEA FILE=HCAPLUS ABB=ON PLU=ON L12 L18

10 SEA FILE=HCAPLUS ABB=ON PLU=ON L17 AND (?ALZHE? OR ?NEURO? OR ?COGNIT? OR ?NEURAL? OR ?ISCHE? OR ?LESION? OR ?DEMIN? OR

?SENIL?)

=> d ibib abs hitstr 118 1-10

L18 ANSWER 1 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:353133 HCAPLUS

DOCUMENT NUMBER:

140:357670

TITLE:

=> =>

Preparation of amino acid derivatives for modulating

angiotensin converting enzyme-2 (ACE-2)

INVENTOR(S):

Acton, Susan L.; Ocain, Timothy D.; Gould, Alexandra E.; Dales, Natalie A.; Guan, Bing; Brown, James A.; Patane, Michael; Kadambi, Vivek J.; Solomon, Michael; Stricker-Krongrad, Alain

PATENT ASSIGNEE(S):

USA

SOURCE:

U.S. Pat. Appl. Publ., 358 pp., Cont.-in-part of U.S.

Ser. No. 870,382.

CODEN: USXXCO

DOCUMENT TYPE: LANGUAGE: Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 2004082496 ZA 2001009378 PRIORITY APPLN. INFO.:	A1 A	20040429 20021114	US 2001-999781 ZA 2001-9378 US 1999-132034P US 1999-171052P US 2000-704216 US 2001-870382 US 2001-371741P	_	20011031 20011114 19990430 19991216 20001101 20010529 20011019
			OD 2001 3/1/415	P	20011019

OTHER SOURCE(S): MARPAT 140:357670

AB ACE-2 modulating compds. Z-A-B-E (Z is a zinc coordinating moiety; E is an enzyme coordinating moiety; A is an auxiliary pocket binding moiety; B is a side chain binding moiety) were prepared for the treatment of body weight disorders. Thus, N-[(S)- or (R)-1-carboxy-3-phenylpropyl]-L-leucine was prepared by the solid-phase method and showed ACE-2 inhibitory activity.

IT 305336-84-9

RL: PAC (Pharmacological activity); BIOL (Biological study) (preparation of amino acid derivs. for modulating angiotensin converting enzyme-2 (ACE-2))

RN 305336-84-9 HCAPLUS

CN L-Proline, N-(3-aminobenzoyl)glycyl-4-nitro-L-phenylalanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L18 ANSWER 2 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2002:609522 HCAPLUS

DOCUMENT NUMBER:

137:163818

TITLE:

Tripeptide derivatives for the treatment of post-

lesional diseases of the nervous system

INVENTOR(S):

Rapin, Jean; Witzmann, Hans Klaus; Grumel, Jean-Marie;

Gonella, Jacques

PATENT ASSIGNEE(S):

Tell-Pharm AG, Switz. Ger. Offen., 4 pp.

SOURCE:

CODEN: GWXXBX

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA'	PATENT NO.				KIND I		DATE		APPLICATION NO.					DATE			
WO	1010 2002 2002	0623	72		A1 A2		2002 2002 2004	0815		DE 2 WO 2	2001-	 1010 EP11	5040 82		2 2	0010 0020	
	W :	AE, CO, GM, LS, PL, UA, TJ, GH,	AG, CR, HR, LT, PT, UG, TM GM,	AL, CU, HU, LU, RO, US,	AM, CZ, ID, LV, RU, UZ,	AT, DE, IL, MA, SD, VN,	AU, DK, IN, MD, SE, YU,	AZ, DM, IS, MG, SG, ZA,	BA, DZ, JP, MK, SI, ZM,	EC, KE, MN, SK, ZW,	EE, KG, MW, SL, AM,	ES, KP, MX, TJ, AZ,	FI, KR, MZ, TM, BY,	GB, KZ, NO, TN, KG,	GD, LC, NZ, TR, KZ,	GE, LK, OM, TT, MD,	GH, LR, PH, TZ, RU,
	13900 R: 2004! APPI	EY, BF, 055 AT, IE, 52670	BE, BE, SI, DI	CF, CH, LT,	CG, A2 DE, LV, T2	DK,	ER, CM, 2004 ES, RO, 2004	GB, GA, 0225 FR, MK, 0902	GR, GN, GB, CY,	IE, GQ, EP 2 GR, AL, JP 2 DE 2	IT, GW, 002~' IT, TR	LU, ML, 70468 LI, 56237	MC, MR, 36 LU, 78	NL, NE, NL,	PT, SN, 20 SE, 20 A 20	SE, TD, 00202 MC,	TR, TG 205 PT, 205
GI																	

The invention discloses the use of cinnamoyl tripeptide derivs. for the AB treatment of post-lesional neuronal diseases. The cinnamoyl tripeptide derivs. are I [X = OH, C1-5 alkoxy, NH2, NH(C1-5 alkyl), N(C1-5 alkyl)2; R = (preferably) cinnamoyl; R1 = group derived from Phe, Tyr, Trp, Pro, Ala, Val, Leu or Ile; R2 = group derived from Gly, Ala, Ile, Val, Ser, Thr, His, Arg, Lys, Pro, Glu, Gln, pGlu, Asp and Asn; R3, R4 = H, OH, C1-5 alkyl, C1-5 alkoxy, provided that R3 and R4 are not both OH or C1-5 alkoxy; R5 = H, OH, C1-5 alkyl, C1-5 alkoxyl, or a pharmaceutical acceptable salt thereof.

IT 123910-57-6

RL: PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (tripeptide derivs. for treatment of post-lesional nervous

system diseases)

RN123910-57-6 HCAPLUS

L-Prolinamide, N-(1-oxo-3-phenyl-2-propenyl)glycyl-L-phenylalanyl- (9CI) CN(CA INDEX NAME)

Absolute stereochemistry. Double bond geometry unknown.

REFERENCE COUNT:

THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS 1 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 3 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2002:591566 HCAPLUS

DOCUMENT NUMBER: TITLE:

137:135103 Tripeptide derivatives for treatment of

neurodegenerative diseases

INVENTOR(S):

Rapin, Jean; Witzmann, Hans Klaus; Grumel, Jean-Marie;

Gonella, Jacques

PATENT ASSIGNEE(S):

Tell-Pharm A.-G., Switz.

SOURCE:

Ger. Offen., 10 pp.

CODEN: GWXXBX

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA'	PATENT NO.				KIND DATE				APPLICATION NO.								
DE WO	DE 10105039 WO 2002062830 W: AE, AG, AL, CO, CR, CU, GM, HR, HU, LS, LT, LU, PL, PT, RO, UA, UG, US, TJ, TM			AL, CU, HU, LU, RO,	AI AM, CZ, ID, LV, RU,	AT, DE, IL, MA, SD,	AU, DK, IN, MD, SE,	0815 AZ, DM, IS, MG, SG,	BA, DZ, JP, MK, SI,	DE 2 WO 2 BB, EC, KE, MN,	BG, EE, KG, MW,	1010 EP11 BR, ES, KP, MX, TJ.	5039 81 BY, FI, KR, MZ,	BZ, GB, KZ, NO,	CA, GD, LC, NZ,	CH, GE, LK, OM,	CN, GH, LR, PH,
EP PRIORITY	13582 R:	GH, CY, BF, 204 AT, IE,	GM, DE, BJ, BE, SI,	KE, DK, CF, CH, LT,	LS, ES, CG, Al DE,	MW, FI, CI,	MZ, FR, CM, 2003]	SD, GB, GA, 1105 FR,	SL, GR, GN, GB,	SZ, IE, GQ, EP 2 GR, AL,	TZ, IT, GW, 002-7	UG, LU, ML, 71672 LI,	ZM, MC, MR, 27 LU,	ZW, NL, NE,	AT, PT, SN, 20	BE, SE, TD, 0202 MC,	CH, TR, TG
OTHER SO	URCE ((s):			MARF	AT :	137:1	.3510	V	VO 2	002-E	EP118	31	W	20	0202	05

The invention discloses the use of tripeptide derivs. for treatment of neurodegenerative diseases. The tripeptide derivs. are I [X = OH, C1-5 alkoxy, NH2, NH(C1-5 alkyl), N(C1-5 alkyl)2; R = (preferably) cinnamoyl; R1 = group derived from Phe, Tyr, Trp, Pro, Ala, Val, Leu or Ile; R2 = group derived from Gly, Ala, Ile, Val, Ser, Thr, His, Arg, Lys, Pro, Glu, Gln, pGlu, Asp or Asn; R3, R4 = H, OH, C1-5 alkyl, C1-5 alkoxy, provided that R3 and R4 are not both OH or C1-5 alkoxy; R5 = H, OH, C1-5 alkyl, C1-5 alkoxy], or a pharmaceutically compatible salt. Cinnamoyl-Gly-L-Phe-L-Pro-NH2 was tested in an Alzheimer's disease model.

IT 123910-57-6

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(tripeptide derivs. for treatment of neurodegenerative diseases)

RN 123910-57-6 HCAPLUS

CN L-Prolinamide, N-(1-oxo-3-phenyl-2-propenyl)glycyl-L-phenylalanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

L18 ANSWER 4 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2002:391512 HCAPLUS

DOCUMENT NUMBER:

136:402027

TITLE:

Preparation of amino acid derivatives for modulating

angiotensin converting enzyme-2 (ACE-2)

INVENTOR(S):

Acton, Susan L.; Ocain, Timothy D.; Gould, Alexandra E.; Dales, Natalie A.; Guan, Bing; Brown, James A.; Patane, Michael; Kadambi, Vivek J.; Solomon, Michael;

Stricker-Krongrad, Alain

PATENT ASSIGNEE(S):

Millennium Pharmaceuticals, Inc., USA

SOURCE:

PCT Int. Appl., 395 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT	KIND DATE		MITHICATION NO.				
WO 2002 WO 2002	039997	A3	20020523	2002 0513703			
W:	GM, HR, HU, LS, LT, LU, PL, PT, RO, UG, US, UZ, GH, GM, KE, DE, DK, ES,	ID, IL, LV, MA, RU, SD, VN, YU, LS, MW, FI, FR,	, DK, DM, , IN, IS, , MD, MG, , SE, SG, , ZA, ZW, , MZ, SD, , GB, GR,	BA, BB, BG, BR, BY, BZ, DZ, EC, EE, ES, FI, GB, JP, KE, KG, KP, KR, KZ, MK, MN, MW, MX, MZ, NO, SI, SK, SL, TJ, TM, TR, AM, AZ, BY, KG, KZ, MD, SL, SZ, TZ, UG, ZW, AT, IE, IT, LU, MC, NL, PT, GQ, GW, ML, MR, NE, SN,	GD, GE, GH, LC, LK, LR, NZ, OM, PH, TT, TZ, UA, RU, TJ, TM BE, CH, CY, SE TP BF		
AU 2002 PRIORITY APP	U39454 LN. INFO.:	A5	20020527	AU 2002-39454 US 2000-704216	20011031 A 20001101 A 20010529 P 20011019		

OTHER SOURCE(S): MARPAT 136:402027

ACE-2 modulating compds. Z-A-B-E (Z is a zinc coordinating moiety; E is an enzyme coordinating moiety; A is an auxiliary pocket binding moiety; B is a side chain binding moiety) were prepared for the treatment of body weight disorders. Thus, N-[(S)-or(R)-1-carboxy-3-phenylpropyl]-L-leucine wasprepared by the solid-phase method and showed ACE-2 inhibitory activity. IT 305336-84-9

RL: PAC (Pharmacological activity); BIOL (Biological study) (preparation of amino acid derivs. for modulating angiotensin converting enzyme-2 (ACE-2))

RN305336-84-9 HCAPLUS

L-Proline, N-(3-aminobenzoyl)glycyl-4-nitro-L-phenylalanyl- (9CI) CN INDEX NAME)

Absolute stereochemistry.

L18 ANSWER 5 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2002:23216 HCAPLUS

DOCUMENT NUMBER:

136:275463

TITLE:

Biodistribution and catabolism of 18F-labeled

neurotensin(8-13) analogs

AUTHOR(S): Bergmann, Ralf; Scheunemann, Matthias; Heichert,

Christoph; Mading, Peter; Wittrisch, Holm;

Kretzschmar, Marion; Rodig, Heike; Tourwe, Dirk;

Garcia 10_635696

Iterbeke, Koen; Chavatte, Kris; Zips, Daniel; Reubi,

Jean Claude; Johannsen, Bernd

CORPORATE SOURCE: Institut fuer Bioanorganische und Radiopharmazeutische

Chemie, Forschungszentrum Rossendorf, Germany

Nuclear Medicine and Biology (2002), 29(1), 61-72

CODEN: NMBIEO; ISSN: 0969-8051

Elsevier Science Inc.

DOCUMENT TYPE: Journal

SOURCE:

PUBLISHER:

LANGUAGE: English

4-([18F]fluoro)benzoyl-neurotensin(8-13) (18FB-Arg8-Arg9-Pro10-AB Tyr11- Ile12-Leu13-OH, 1) and two analogs stabilized in one and two positions (18FB-Arg8ψ(CH2NH)Arg9-Pro10-Tyr11- Ile12-Leu13-OH, 2, 18FB-Arg8ψ(CH2NH)Arg9-Pro10-Tyr11-Tle12-Leu13-OH, 3) were synthesized in a radiochem. yield of 25-36% and a specific activity of 5-15 GBq/mmol. The peptides were evaluated in vitro and in vivo for their potential to image tumors overexpressing neurotensin receptor 1 (NTR1) by positron emission tomog. (PET). All analogs exhibited in vitro binding affinity in the low nanomolar range to NTR1-expressing human tumors, measured by quant. receptor autoradiog., HT-29 and WiDr cells, and to sections of tumors derived from these cell lines in mice. The radiotracers were internalized in the cells in vitro, and the fluorinated peptides were able to mobilize intracellular Ca2+ of WiDr cells. In in vivo studies in rats and in mice bearing HT-29 cell tumors, only a moderate uptake of the radioligands into the studied tumors was observed, presumingly due to degradation in vivo and fast elimination by the kidneys. In comparison with the other analogs, the specific tumor uptake expressed as tumor-to-muscle relation was highest for the radioligand 3. The blood clearance of 3 was reduced by co-injection of peptidase inhibitors. catabolic pathways of the radiofluorinated peptides were elucidated. results suggest that the high binding affinity to NTR1 and the stabilization against proteolytic degradation are not yet sufficient for tumor imaging by PET.

IT406486-51-9

> RL: PKT (Pharmacokinetics); BIOL (Biological study) (metabolite; biodistribution and catabolism of 18F-labeled neurotensin(8-13) analogs in relation to their potential to image tumors overexpressing neurotensin receptor 1 by PET)

RN 406486-51-9 HCAPLUS

L-Proline, N2-[4-(fluoro-18F)benzoyl]-L-arginyl-L-arginyl- (9CI) CN INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT:

THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS 51 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 6 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:338068 HCAPLUS

DOCUMENT NUMBER: 134:348237

Garcia 10 635696

TITLE: Treatment of female sexual arousal dysfunction INVENTOR(S): Maw, Graham Nigel; Wayman, Christopher Peter PATENT ASSIGNEE(S): Pfizer Limited, UK; Pfizer Inc. SOURCE: Eur. Pat. Appl., 135 pp. CODEN: EPXXDW DOCUMENT TYPE: Patent LANGUAGE: English FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND APPLICATION NO. DATE DATE _ _ _ _ ---**-**--------EP 1097707 A1 20010509 EP 2000-309719 20001103 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO ZA 2000006374 Α 20020506 ZA 2000-6374 20001106 ZA 2000006375 Α 20020506 20020506 20020506 20020506 20010509 20010509 20010509 ZA 2000-6375 20001106 ZA 2000006376 Α ZA 2000-6376 20001106 ZA 2000006378 Α ZA 2000-6378 20001106 NO 2000005618 Α NO 2000-5618 20001107 NO 2000005661 Α NO 2000-5661 20001107 NO 2000005662 Α NO 2000-5662 20001107 CN 1320426 Α CN 2000-137665 20001107 CN 1322526 Α 20011121 CN 2000-137671 20001107 CN 1328824 Α CN 2000-137670 20020102 20001107 NZ 508006 Α 20020628 NZ 2000-508006 20001107 NZ 508007 Α 20020628 NZ 2000-508007 20001107 NZ 508011 A 20020628 NZ 2000-508011 20020628 NZ 2000-508012 20030408 BR 2000-5266 20010731 JP 2000-339905 20010807 JP 2000-339853 20010911 JP 2000-339949 20010911 JP 2000-339949 20020628 NZ 2000-508011 20001107 NZ 508012 Α 20001107 Α BR 2000005266 20001107 A2 JP 2001206855 20001108 A2 JP 2001213802 20001108 A2 JP 2001247478 20001108 JP 2001247479 A2 JP 2000-339957 20010911 20001108 A BR 2000005276 BR 2000-5276 20030408 20001108 BR 2000005299 Α BR 2000-5299 20030415 20001108 US 6734186 B1 20040511 US 2000-708392 20001108 A 19991108 A 20000218 20001108 PRIORITY APPLN. INFO.: GB 1999-26437 GB 2000-4021 GB 2000-13001 A 20000526 GB 2000-16563 GB 2000-17141 A 20000705 A 20000712 US 2000-175161P P 20000107 P 20000329 US 2000-192962P US 2000-217479P P 20000711 US 2000-221014P P 20000727 US 2000-221093P P 20000727 A method of treating a female suffering from female sexual dysfunction (FSD), in particular female sexual arousal dysfunction (FSAD), is described. The method comprises delivering to the female an agent that is capable of potentiating cAMP in the sexual genitalia; wherein the agent is in an amount to cause potentiation of cAMP in the sexual genitalia of the female. The agent may be admixed with a pharmaceutically acceptable carrier, diluent or excipient. ΤТ 67482-93-3 RL: ARU (Analytical role, unclassified); BPR (Biological process); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study); PROC (Process) (treatment of female sexual arousal dysfunction)

RN 67482-93-3 HCAPLUS
CN L-Proline, N-(2-aminobenzoyl)glycyl-4-nitro-L-phenylalanyl- (9CI) (CINDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT:

THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 7 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2000:790293 HCAPLUS

DOCUMENT NUMBER:

133:344615

TITLE:

ACE-2 inhibiting compounds, their preparation,

pharmaceutical compositions containing them, and their

therapeutic use

INVENTOR (S):

Acton, Susan L.; Ocain, Timothy D.; Gould, Alexandra E.; Dales, Natalie A.; Guan, Bing; Brown, James A.

Millennium Pharmaceuticals, Inc., USA

PATENT ASSIGNEE(S):

PCT Int. Appl., 127 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA7	PATENT NO.							APPLICATION NO.						DATE			
WO	2000 2000	0661	04 04		A2 A3		1109 0628		WO	2000	-US11	550		2	0000	428	
WO	2000	0661	04		C2		2002	0829									
		CU, ID, LV, SG, AM, GH,	CZ, IL, MA, SI, AZ, GM,	DE, IN, MD, SK, BY, KE,	DK, IS, MG, SL, KG, LS,	DM, JP, MK, TJ, KZ, MW,	DZ, KE, MN, TM, MD, SD,	EE, KG, MW, TR, RU, SL,	ES, KP, MX, TT, TJ, SZ,	FI KF NC TZ TM TZ	C, GB R, KZ D, NZ Z, UA M L, UG	, BR, , GD, , LC, , PL, , UG, , ZW,	GE, LK, PT, UZ,	GH, LR, RO, VN,	GM, LS, RU, YU,	HR, LT, SD, ZA,	HU, LU, SE, ZW,
		CG,	CI,	CM,	GA,	GN,	GW,	ML,	MR,	NE	. SN	, ND,	TG,	SE,	Br,	во,	CF,
EP	1183	019			A2		20020	0306		EΡ	2000	9264	78		20	00004	128
	R:	IE,	BE, SI,	CH, LT,	DE, LV,	DK, FI,	ES, RO	FR,	GB,	GR	, IT	, LI,	LU,	NL,	SE,	MC,	PT,
	20010								7	ΓR	2001	-2001	03094	1	20	00004	128
	20000											-1016				00004	
	20029						20023	1217	Ċ	JP	2000	6149	89		20	0004	128
	US 6632830						20031		τ	JS	2000-	5617	59		20	0004	128
	20010											5274				0110	29
	20010				A		20021	l114				9378				0111	14
PRIORITY APPLN. INFO.:			:								-1320: -1710:				9904 9912	-	

WO 2000-US11550 W 20000428

OTHER SOURCE(S): MARPAT 133:344615

AB ACE-2 inhibiting compds. are disclosed. Methods of using the compds. and pharmaceutical compns. containing the compds. are also claimed. The compds. of the invention are useful for treating e.g. blood pressure-related diseases. Compound preparation is described.

IT 305336-84-9

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(ACE-2 inhibitor preparation, pharmaceutical compns., and therapeutic use)

RN 305336-84-9 HCAPLUS

CN L-Proline, N-(3-aminobenzoyl)glycyl-4-nitro-L-phenylalanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L18 ANSWER 8 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1999:124017

DOCUMENT NUMBER: 130:322240

TITLE: N-domain selectivity of angiotensin I-converting

enzyme as assessed by structure-function studies of

its highly selective substrate, N-acetyl-seryl-

aspartyl-lysyl-proline

AUTHOR(S): Michaud, Annie; Chauvet, Marie-Therese; Corvol, Pierre

HCAPLUS

CORPORATE SOURCE: Institut National de la Sante et de la Recherche

Medicale, Unite 36, College de France, Paris, 75005,

Fr.

SOURCE: Biochemical Pharmacology (1999), 57(6), 611-618

CODEN: BCPCA6; ISSN: 0006-2952

PUBLISHER: Elsevier Science Inc.

DOCUMENT TYPE: Journal LANGUAGE: English

The physiol. functions of angiotensin I-converting enzyme (ACE) are not limited to its cardiovascular role. ACE constantly degrades N-acetyl-seryl-aspartyl-lysyl-proline (AcSDKP), a natural circulating regulator of the hematopoietic stem cell proliferation, and thereby may be involved in hematopoietic stem cell regulation. AcSDKP is hydrolyzed 50-fold faster by the N-domain active site compared to the C-domain active site. The aim of the present study was to investigate which amino acid residues from AcSDKP are required to ensure N-domain specificity. Several peptides were designed by progressively increasing the length of the peptidic chain from a tripeptide to a pentapeptide. Kinetic studies of the wild-type ACE and of the two ACE mutants containing a single active domain (N- or C-domain) were performed using Bz (benzoyl) Asp-Lys-Pro, benzoyl-glycyl (Bz-Gly)-Asp-Lys-Pro, and Bz-Gly-Ser-Asp-Lys-Pro (with its intermediate product Bz-Gly-Ser-Asp) as substrates. The unexpected

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importance of an aspartic acid in the P1 position was discovered, as well as the interaction of the P2 and P3 positions in the substrate to increase or decrease N-domain specificity. Substrates longer than five residues may involve interdependence between subsites. Finally, the discovery of highly specific and novel N-domain substrates cannot be predicted from single subsite mapping, but may require other approaches such as combinatorial peptide libraries.

IT 223779-90-6

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(N-domain selectivity of angiotensin I-converting enzyme as assessed by structure-function studies of its highly selective substrate,

N-acetyl-seryl-aspartyl-lysyl-proline)

RN 223779-90-6 HCAPLUS

CN L-Proline, N-benzoyl-L- α -aspartyl-L-lysyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT:

THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 9 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1990:16254 HCAPLUS

DOCUMENT NUMBER:

112:16254

TITLE:

Targeted delivery of drugs and diagnostic agents using carriers which promote endothelial and epithelial

uptake and lesional localization

INVENTOR (S):

Ranney, David F.

PATENT ASSIGNEE(S):

USA

SOURCE:

PCT Int. Appl., 99 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA'	TENT NO.	 -		KIN	D -	DATE			APPL	ICAT	ION	NO.		D.	ATE	
	8807365 8807365			A2 A3		1988 1988	_		WO 1	988-	US10	96		1:	9880	330
	W: AT	MG,	MW,	NL,	NO,	RO,	SD,	SE,	SU.	US						
		BE, SN,	BJ, TD,	CF, TG	CG,	CH,	CM,	DE,	FR,	GA,	GB,	IT,	LU,	ML,	MR,	NL,
US	4925678			Α		1990	0515	1	JS 1:	987-	3343	2		1 0	98704	401
	8816275			A1		1988	1102	ž	AU 19	988-	1627	5			98803	
ΑU	607494			B2		1991	0307				,			4.	/000.	330

Garcia 10_635696

EP 352295 EP 352295	A1 B1	19900131	21 1900 903/02	19880330
EP 352295	В2	19930616 19960410		
R: AT, BE, CH,	,		LI, LU, NL, SE	
JP 04504404 JP 2886171	T2	19920806		19880330
AT 90554	B2 E	19990426		
CA 1324080	A1	19930715	AT 1988-903702	19880330
US 5108759	A	19931109 19920428	CA 1988-565119	19880426
PRIORITY APPLN. INFO.:	7.7	19920420	US 1989-448121 US 1987-33432	19891208
			US 1987-33432 EP 1988-903702	19870401
			WO 1988-US1096	19880330
70 0 1 2 2 2 1			"O TOO OOTOBO	19880330

Targeted delivery systems comprise drugs or diagnostic agents and carriers AB which recognize determinants present on normal or diseased endothelium. This induces the following effects in vivo: (1) rapid endothelial envelopment of the carrier; (2) sequestration of the carrier and protection of the entrapped agent from early blood clearance; (3) acceleration of the carrier's transport across the vascular endothelium into the interstitium; and (4) improvement of drug delivery across the endothelium, so that a lower total drug dose is required. Aqueous cisplatin (I) was mixed with heparin at a 1:1.1 weight ratio and ultrasonicated to form a heparin-coated I microemulsion with particle sizes of 0.2-1.5 μm , which was stable for >1 h at 22°. Mice receiving this emulsion i.v. showed moderate to intense concentration of I in the lung interstitia, alveolar pneumocytes, respiratory epithelia, and lymph nodes, but low I concns. in the liver, whereas mice receiving standard aqueous I showed intense I concentration in the liver and almost no I in the lungs. Thus high concns. of I (which are usually toxic to endothelium) can be successfully reformulated as a heparin microemulsion, and the heparin component can induce endothelial binding and transcellular uptake of the complexes in a fashion that protects the endothelium from the toxic effects of the drug. 69677-91-4 TT

RL: BIOL (Biological study)

(as multivalent binding agent, for targeted drug delivery to epithelium)

RN 69677-91-4 HCAPLUS

CN L-Proline, N-benzoyl-L-phenylalanyl-L-alanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L18 ANSWER 10 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN ACCESSION NUMBER: 1989:633680 HCAPLUS

DOCUMENT NUMBER:

1989:633680 HCAPLUS 111:233680

TITLE:

Preparation of tripeptides containing L-proline derivatives as nootropics and pharmaceutical

compositions containing them

INVENTOR (S):

Fiez-Vandal, Pierre Yves

Garcia 10 635696

PATENT ASSIGNEE(S):

Inorgan S. A., Switz.

SOURCE:

Eur. Pat. Appl., 18 pp.

DOCUMENT TYPE:

CODEN: EPXXDW

LANGUAGE:

Patent

French

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
EP 316218 EP 316218	A1 B1	19890517 19930915	EP 1988-402761	-	19881103
R: AT, BE, CH, FR 2622581	DE, ES	, FR, GB, G	R, IT, LI, LU, NL, SE		
FR 2622581	A1 B1	19890505 19900216	FR 1987-15228		19871103
JP 01157998 FI 8805083	A2 A	19890621 19890504	JP 1988-276343		19881102
US 5212158	A	19930518	FI 1988-5083 US 1988-266680		19881103 19881103
AT 94560 ES 2061710	E T3	19931015 19941216	AT 1988-402761 ES 1988-402761		19881103 19881103
KR 121793 CA 1340227	B1 A1	19971127	KR 1988-14433		19881103
PRIORITY APPLN. INFO.:	AI	19981215	CA 1988~582169 FR 1987-15228	Α	19881103 19871103
OTHER SOURCE(S):	CASREAG	CT 111:23368	EP 1988-402761 80; MARPAT 111:233680	A	19881103

The title compds. [I; R1 = Q; X = CO, YCO, OYCO; Y = alkylene, alkenylene; AB Z = H, ≥ 1 CF3, alkyl, alkylenedioxy; R2 = NH2, OH, or a functional derivative thereof; A1, A2 = amino acid residue; B1, B2 = H, Me] and their pharmaceutically acceptable salts, useful as nootropics for treatment of senile dementia, Alzheimer's disease, Parkinson's disease, schizophrenia, and depression, are prepared via reaction of activated R1-A1-OH with proline derivs. II (R3 = H-A2), obtained by reaction of II (R3 = H) with activated H-A2-OH. N-Cinnamoylglycine (preparation given) was condensed with II.CF3CO2H (R2 = NH2, B1 = B2 = H, R3 = H-Phe) (preparation given) in DMF containing dicyclohexylcarbodiimide and N-methylmorpholine to give I (R1 = cinnamoyl, R2 = NH2, B1 = B2 = H, A1 = Gly, A2 = Phe) (III). III, administered i.p. or p.o. at 1 mg/kg, was effective in antagonizing scopolamine-induced amnesia in mice.

123910-50-9P 123910-52-1P 123910-53-2P IT 123910-54-3P 123910-55-4P 123910-57-6P 123910-58-7P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, as nootropic)

123910-50-9 HCAPLUS RN

L-Prolinamide, N-[3-(4-fluorophenyl)-1-oxo-2-propenyl]glycyl-L-CN phenylalanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry unknown.

RN 123910-52-1 HCAPLUS

CN L-Prolinamide, N-[1-oxo-3-(3,4,5-trimethoxyphenyl)-2-propenyl]glycyl-L-phenylalanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry unknown.

RN 123910-53-2 HCAPLUS

CN L-Prolinamide, N-(1-oxo-3-phenyl-2-propenyl)glycyl-L-leucyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry unknown.

RN 123910-54-3 HCAPLUS

CN L-Prolinamide, N-benzoylglycyl-L-phenylalanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 123910-55-4 HCAPLUS

CN L-Prolinamide, N-(phenylacetyl)glycyl-L-phenylalanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 123910-57-6 HCAPLUS

CN L-Prolinamide, N-(1-oxo-3-phenyl-2-propenyl)glycyl-L-phenylalanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry unknown.

RN 123910-58-7 HCAPLUS

CN L-Prolinamide, N-[3-(1,3-benzodioxol-5-yl)-1-oxo-2-propenyl]glycyl-L-phenylalanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

=> [=> d stat que nos L3STR Ь7 248833 SEA FILE=REGISTRY SSS FUL L3 L11 STR L12301 SEA FILE=REGISTRY SUB=L7 SSS FUL L11 L17 177 SEA FILE=HCAPLUS ABB=ON PLU=ON L12L18 10 SEA FILE=HCAPLUS ABB=ON PLU=ON L17 AND (?ALZHE? OR ?NEURO? OR ?COGNIT? OR ?NEURAL? OR ?ISCHE? OR ?LESION? OR ?DEMIN? OR ?SENIL?) L19 112997 SEA FILE=HCAPLUS ABB=ON PLU=ON "NERVOUS SYSTEM, DISEASE"/CV OR ("BRAIN, DISEASE"/CV OR "MENTAL DISORDER"/CV OR "ALZHEIMER'S DISEASE"/CV OR "MENTAL DISORDER (L) ALZHEIMER'S DISEASE"/CV OR "ALZHEIMER DEMENTIA"/CV OR "ALZHEIMER DISEASE MENTAL DISORDER"/CV OR "ALZHEIMER'S DEMENTIA"/CV OR "ALZHEIMER'S DISEASE MENTAL DISORDER"/CV OR "ALZHEIMER'S SENILE DEMENTIA"/CV OR "ALZHEIMER-TYPE SENILE DEMENTIA"/CV OR "NONFAMILIAL ALZHEIMER'S DISEASE"/CV OR "PRESENILE ALZHEIMER'S DISEASE"/CV OR "PRESENILE ALZHEIMER-TYPE DEMENTIA"/CV OR "PRESENILE DEMENTIA"/CV OR "MENTAL DISORDER (L) ALZHEIMER'S DISEASE, LEWY-BODY VARIANT"/CV OR "MENTAL DISORDER (L) ALZHEIMER'S DISEASE, FAMILIAL"/CV OR "MENTAL DISORDER (L) ALZHEIMER'S DISEASE, FAMILIAL, TYPE 3"/CV OR "MENTAL DISORDER (L) ALZHEIMER 'S DISEASE, TYPE I"/CV OR "MENTAL DISORDER (L) ALZHEIMER'S DISEASE, TYPE II"/CV OR "AGING, ANIMAL"/CV OR "AMYLOID PRECURSOR PROTEINS"/CV OR AMYLOIDOSIS/CV OR "ANTI-ALZHEIMER'S AGENTS"/CV OR "COGNITION ENHANCERS"/CV OR "NEUROFIBRILLARY TANGLE"/CV OR PRESENILINS/CV OR "TAU FACTOR"/CV OR B-SECRE TASE/CV OR Γ-SECRETASE/CV OR "CDK5 KINASE"/CV OR "GLYCOGEN SYNTHASE KINASE 3"/CV OR "HUMAN B-AMYLOID PEPTIDE-(1-40)"/CV OR "HUMAN B-AMYLOID PEPTIDE-(1-42)"/CV OR TACRINE/CV) L20 4 SEA FILE=HCAPLUS ABB=ON PLU=ON L19 AND L17 L21 76835 SEA FILE=HCAPLUS ABB=ON PLU=ON ("BLOOD VESSEL, DISEASE"/CV OR ISCHEMIA/CV OR "BLOOD VESSEL, DISEASE (L) ISCHEMIA"/CV OR "ISCHEMIA CARDIOVASCULAR SYSTEM"/CV OR "ANTI-ISCHEMIC AGENTS"/C V OR CIRCULATION/CV OR "ISCHEMIC PRECONDITIONING"/CV OR REPERFUSION/CV OR "ISCHEMIA CARDIOVASCULAR SYSTEM"/CV OR ISCHEMIA/CV) T₁22 11 SEA FILE=HCAPLUS ABB=ON PLU=ON L21 AND L17 L23 10404 SEA FILE=HCAPLUS ABB=ON PLU=ON "NERVOUS SYSTEM, DISEASE"/CV L24 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L23 AND L17 L25 15 SEA FILE=HCAPLUS ABB=ON PLU=ON L20 OR L22 OR L24 L26 10 SEA FILE=HCAPLUS ABB=ON PLU=ON L25 NOT L18 L27 5 SEA FILE=HCAPLUS ABB=ON PLU=ON L17(L)(?MEDIC? OR ?DRUG? OR ?PHARM? OR ?THERAP?) L28 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L27 NOT L18 L29 12 SEA FILE=HCAPLUS ABB=ON PLU=ON L26 OR L28

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=> d ibib abs hitstr 129 1-12

L29 ANSWER 1 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2002:354079 HCAPLUS

DOCUMENT NUMBER:

INVENTOR (S):

136:355487

TITLE:

Preparation of meta-benzamidine derivatives of amino acids or dipeptides as serine protease inhibitors Liebeschuetz, John Walter; Wylie, William Alexander; Waszkowycz, Bohdan; Murray, Christopher William; Rimmer, Andrew David; Welsh, Pauline Mary; Jones, Stuart Donald; Roscoe, Jonathan Michael Ernest; Young,

Stephen Clinton; Morgan, Phillip John

PATENT ASSIGNEE(S):

Tularik Ltd., UK

SOURCE:

U.S. Pat. Appl. Publ., 35 pp., Cont.-in-part of U.S. Ser. No. 485,678.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

13

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.		E 	APPLICATION NO.	DATE
		20509	US 2001-988082	20011110
US 6740682		40525	05 2001-988082	20011119
WO 9911658			WO 1998-GB2605	7.000.000
			WO 1998-GB2605	19980828
DK EE ES	FT CD CD	CH CM	, BR, BY, CA, CH,	CN, CU, CZ, DE,
KD KD K7.	I.C I.K ID	, GA, GM	, HR, HU, ID, IL,	IS, JP, KE, KG,
NO NZ DI	ביר, בות, בות	, по, пт	LU, LV, MD, MG,	MK, MN, MW, MX,
HA HG HG	II7 VM VII	, SD, SE,	, SG, SI, SK, SL,	TJ, TM, TR, TT,
PW· CH CM KE	TC MW CD	, ZW, AM,	, AZ, BY, KG, KZ,	MD, RU, TJ, TM
RM. GH, RE,	LD, MW, SD	, 52, UG,	ZW, AT, BE, CH,	CY, DE, DK, ES,
CM CA CM	GR, IE, II	, LU, MC,	NL, PT, SE, BF,	BJ, CF, CG, CI,
CM, GA, GN, WO 2000077027				
WO 2000077027 WO 2000077027			WO 2000-GB2291	20000613
		10525		
w: AE, AG, AL,	AM, AT, AU	, AZ, BA,	BB, BG, BR, BY,	CA, CH, CN, CR,
CO, CZ, DE,	DK, DM, DZ	, EE, ES,	FI, GB, GD, GE,	GH, GM, HR, HU,
ID, ID, IN,	IS, JP, KE	, KG, KP,	KR, KZ, LC, LK,	LR, LS, LT, LU,
LV, MA, MD,	MG, MK, MN	, MW, MX,	MZ, NO, NZ, PL,	PT, RO, RU, SD,
SE, SG, SI,	SK, SL, TJ	, TM, TR,	TT, TZ, UA, UG,	US, UZ, VN, YU,
ZA, ZW, AM,	AZ, BY, KG	, KZ, MD,	RU, TJ. TM	
RW: GH, GM, KE,	LS, MW, MZ	, SD, SL,	SZ, TZ, UG, ZW,	AT, BE, CH, CY,
DE, DK, ES,	FI, FR, GB	, GR, IE,	IT, LU, MC, NL,	PT. SE. BF. BJ.
CF, CG, CI,	CM, GA, GN,	GW, ML,	MR, NE, SN, TD,	TG
US 2003216403		31120	US 2003-296245	20030514
	A1 2004	10722	US 2004-752568	20040108
PRIORITY APPLN. INFO.:			GB 1997-18392	A 19970829
			GB 1998-3173	A 19980213
			WO 1998-GB2605	W 19980828
			GB 1999-13823	A 19990614
			US 1999-142064P	P 19990702
·			US 2000-485678	A2 20000225
			WO 2000-GB2291	A2 20000613
			GB 1999-18741	A 19990809
			GB 1999-29552	A 19991214
			GB 1999-29553	A 19991214
				1000111

WO 2001-GB2566 US 2001-988082

W 20010612 A1 20011119

OTHER SOURCE(S):

MARPAT 136:355487

Ι

GT

$$X-X-Y-L-Lp(D)_{n}$$
 $R^{1}R^{2}N$
 NR^{1}

Title compds. I [R1, R2 = H, OH, alkoxy, alkyl, aminoalkyl, hydroxyalkyl, AΒ alkoxyalkyl, alkoxycarbonyl, acyloxymethoxycarbonyl or alkylamino optionally substituted by hydroxy, alkylamino, alkoxy, oxo, aryl, cycloalkyl; R3 = R1, R2, amino, halo, cyano, nitro, thiol, alkylthio, alkylsulfonyl, alkylsulfenyl, alkylsulfonamido, alkylaminosulfonyl, haloalkoxy, haloalkyl; X = C, N, O, S, CO, CR1, C(R1)2, NR1 with at least one X being C, CO, CR1 or C(R1)2, with the proviso that if the benzamidine group is unsubstituted and the X-X group is -CH2C(R1)2-, then R1 = H or attached to the alkylene carbon atom by a heteroatom; L = organic linker containing 1-5 backbone atoms selected from C, N, O and S, or a branched alkyl or cyclic group; Y = N, CR1; YL = cyclic group; Cy = (un)saturated, (poly)cyclic, (hetero)cyclic group optionally substituted by groups R3 or Ph optionally substituted by R3; Lp = lipophilic alkyl, heterocyclic, alkenyl, alkaryl, (poly) cycloalkyl, cycloalkenyl, aryl, aralkyl, haloalkyl, or a combination of two or more such groups optionally substituted by oxa, oxo, aza, thio, halo, amino, hydroxy or by R3; D = Hbond donor group; n = 0-2], or corresponding compds. in which the (un) substituted amidino group R1R2NC(:NR1) is replaced with an (un) substituted aminomethyl group, or their physiol. tolerable salts were prepared as serine protease inhibitors useful as antithrombotic agents. 3-Amidino- and 3-(aminomethyl)benzoyl-D-phenylglycine 4aminomethylcyclohexylmethylamide are among 190 compds. synthesized.

IT221233-25-6P 221234-79-3P 221277-36-7P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

(preparation of meta-benzamidine derivs. of amino acids or dipeptides as serine protease inhibitors)

RN 221233-25-6 HCAPLUS

CN

D-Proline, (2R)-N-[3-(aminoiminomethyl)benzoyl]-2-phenylglycyl-3-(2naphthalenyl)-D-alanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 221234-79-3 HCAPLUS

CN D-Prolinamide, (2R)-N-[3-(aminoiminomethyl)benzoyl]-2-phenylglycyl-D-phenylalanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 221277-36-7 HCAPLUS

CN D-Proline, (2R)-N-[3-(aminoiminomethyl)benzoyl]-2-(naphthalenyl)glycyl-3-(2-naphthalenyl)-D-alanyl-(9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

L29 ANSWER 2 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1999:184269 HCAPLUS

DOCUMENT NUMBER:

INVENTOR (S):

130:237884

TITLE:

Preparation of meta-benzamidine derivatives of amino acids or dipeptides as serine protease inhibitors

Liebeschuetz, John Walter; Wylie, William Alexander; Waszkowycz, Bohdan; Murray, Christopher William; Rimmer, Andrew David; Welsh, Pauline Mary; Jones, Stuart Donald; Roscoe, Jonathan Michael Ernest; Young,

Stephen Clinton; Morgan, Phillip John

PATENT ASSIGNEE(S):

SOURCE:

Proteus Molecular Design Ltd., UK

PCT Int. Appl., 110 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

13

PATENT INFORMATION:

PATENT N	O.	KIND DATE	APPLICATION NO.	DATE			
RW: (AL, AM, AT, DK, EE, ES, KP, KR, KZ, NO, NZ, PL, UA, UG, US, GH, GM, KE, FI, FR, GB,	AU, AZ, BA, FI, GB, GE, LC, LK, LR, PT, RO, RU, UZ, VN, YU, LS, MW, SD, GR, IE, IT,	311 WO 1998-GB2605 BB, BG, BR, BY, CA, CH, GH, GM, HR, HU, ID, IL, LS, LT, LU, LV, MD, MG, GD, SE, SG, SI, SK, SL, ZW, AM, AZ, BY, KG, KZ, SZ, UG, ZW, AT, BE, CH, LU, MC, NL, PT, SE, BF,	CN, CU, CZ, DE, IS, JP, KE, KG, MK, MN, MW, MX, TJ, TM, TR, TT, MD, RU, TJ, TM CY, DE, DK, ES.			
AU 988879 EP 100979 R: I US 200209 US 674068	57 58 DE, FR, GB, 55522 82 16403 43018	A1 19990 A1 20000 IT A1 20020 B2 20040	225 20 US 2003-296245	19980828 19980828 20011119 20030514 20040108 A 19970829			

CP	1998-3173	70	10000010
		A	19980213
WO	1998-GB2605	W	19980828
GB	1999-13823	A	19990614
US	1999-142064P	P	19990702
US	2000-485678	A2	20000225
WO	2000-GB2291	A2	20000613
WO	2001-GB2566	W	20010612
US	2001-988082	A1	20011119

OTHER SOURCE(S):

MARPAT 130:237884

$$X-X-Y-L-Lp(D)_n$$
 $R^{3} R^{1}R^{2}N$
 NR^{1}

$$\begin{array}{c} \text{CO-N} \\ \text{Ph} \\ \text{Ph} \end{array}$$

Title compds. I [R1, R2 = H, OH, alkoxy, alkyl, aminoalkyl, hydroxyalkyl, AΒ alkoxyalkyl, alkoxycarbonyl, acyloxymethoxycarbonyl or alkylamino optionally substituted by hydroxy, alkylamino, alkoxy, oxo, aryl, cycloalkyl; R3 = R1, R2, amino, halo, cyano, nitro, thiol, alkylthio, alkylsulfonyl, alkylsulfenyl, alkylsulfonamido, alkylaminosulfonyl, haloalkoxy, haloalkyl; X = C, N, O, S, CO, CR1, C(R1)2, NR1 with at least one X being C, CO, CR1 or C(R1)2, with the proviso that if the benzamidine group is unsubstituted and the X-X group is -CH2C(R1)2-, then R1 = H or attached to the alkylene carbon atom by a heteroatom; L = organic linker containing 1-5 backbone atoms selected from C, N, O and S, or a branched alkyl or cyclic group; Y = N, CR1; YL = cyclic group; Cy = (un)saturated, (poly) cyclic, (hetero) cyclic group optionally substituted by groups R3 or Ph optionally substituted by R3; Lp = lipophilic alkyl, heterocyclic, alkenyl, alkaryl, (poly)cycloalkyl, cycloalkenyl, aryl, aralkyl, haloalkyl, or a combination of two or more such groups optionally substituted by oxa, oxo, aza, thio, halo, amino, hydroxy or by R3; D = H bond donor group; n = 0-2] and their physiol. tolerable salts were prepared as serine protease inhibitors useful as antithrombotic agents. Synthesis methodol. for preparing some I was provided, and common starting materials were Fmoc- or Boc-(D)-phenylglycine and m-amidinobenzoic acid. Descriptions of enzyme assays were given, but no enzyme inhibition data was provided for I. To measure the antithrombotic activity, a partial thromboplastin time test assay was done, and for example, m-amidinobenzoyl-D-phenylglycine ester II (preparation not given, but 1H NMR characterization data provided), at 1.9 μM concentration, doubled the clotting

Ι

II

time.

IT 221233-25-6P 221234-79-3P 221277-36-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of meta-benzamidine derivs. of amino acids or dipeptides as serine protease inhibitors)

RN 221233-25-6 HCAPLUS

CN D-Proline, (2R)-N-[3-(aminoiminomethyl)benzoyl]-2-phenylglycyl-3-(2-naphthalenyl)-D-alanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 221234-79-3 HCAPLUS

CN D-Prolinamide, (2R)-N-[3-(aminoiminomethyl)benzoyl]-2-phenylglycyl-D-phenylalanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 221277-36-7 HCAPLUS

CN D-Proline, (2R)-N-[3-(aminoiminomethyl)benzoyl]-2-(naphthalenyl)glycyl-3-(2-naphthalenyl)-D-alanyl-(9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

REFERENCE COUNT:

12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 3 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1999:184268 HCAPLUS

DOCUMENT NUMBER:

130:223587

TITLE:

1-amino-7-isoquinoline derivatives as serine protease

inhibitors

INVENTOR(S):

Liebeschuetz, John Walter; Wylie, William Alexander; Waszkowycz, Bohdan; Murray, Christopher William; Rimmer, Andrew David; Welsh, Pauline Mary; Jones, Stuart Donald; Roscoe, Jonathan Michael Ernest; Young,

Stephen Clinton; Morgan, Phillip John; Camp, Nicholas

Paul; Crew, Andrew Philip Austin Proteus Molecular Design Ltd., UK

PATENT ASSIGNEE(S):

SOURCE:

PCT Int. Appl., 89 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

13

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA	PATENT NO.				KIND DATE			APPLICATION NO.						DATE			
						-									-		
WO	9911	657			A1		1999	0311		WO 1	998-	GB26	00		1	9980:	828
	W:	АL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH.	CN.	CII	CZ	DE
		DK,	EE,	ES,	FI,	GB,	GE,	GH,	GM,	HR,	HU.	ID.	TI.	TS.	.TD	KE,	KG,
		ΚP,	KR,	KZ,	LC,	LK,	LR,	LS,	LT.	LU,	LV.	MD.	MG	MK,	MNT,	MIA7	MV
		NO,	NZ,	PL,	PT,	RO,	RU,	SD.	SE.	SG,	ST.	SK	ST.	m.T	THIN,	יייים,	ייית,
		UA,	ŪĠ,	US,	UZ,	VN.	YU.	ZW.	AM.	AZ,	BY	KG,	V7	MD,	DII,	nr,	II,
	RW:	GH,	GM,	KE,	LS.	MW.	SD.	57	IIG.	ZW,	ΔT,	RE,	CU,	CV	RU,	IU,	TM
		FI,	FR,	GB.	GR.	TE.	TT.	T.II	MC	NL,	DT,	OE,	Cn,	CY,	DE,	DK,	ES,
		CM.	GA.	GN.	GW.	MI.	MP	ME,	GNI	TD,	TC,	ъE,	BF,	BJ,	CF,	CG,	CI,
ΔIJ	9888	753											_				
					ΑT		1999	0322		AU 19	198-1	3875	3		19	99808	328
	1012				A1		2000(0628		EP 19	998-9	94042	2.5		10	99808	328
ΕP	1012	166			B1		2003	1029								,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,20
	R:	CH,	DE,	ES,	FR,	GB,	IT,	LI,	NL								

Garcia 10 635696

US 6262069 US 2002040144 US 6420438 US 2003216403 PRIORITY APPLN. INFO.:	B1 A1 B1 A1	20010717 20020404 20020716 20031120	US US GB GB WO US	2000-485677 2001-865418 2000-865418 2003-296245 1997-18392 1998-3173 1998-GB2600 2000-485677 2001-GB2566	A A W A1 W	20000225 20010529 20010529 20030514 19970829 19980213 19980828 20000225 20010612
OTHER SOURCE(S):	MARPAT	130:223587	WO	2001-GB2566	W	20010612

GΙ

Aminoisoquinoline amino acid derivs. I [R1 = H, halo, cyano, nitro, ΆB hydroxy, amino, alkoxy, alkyl, aminoalkyl, hydroxyalkyl, thiol, alkylthio, aminosulfonyl, alkoxyalkyl, alkoxycarbonyl, acyloxymethoxycarbonyl or alkylamino (optionally substituted); R2 = H, halo, Me, amino, hydroxy, or oxo; and R is X-X-Y(R7)-L-Lp(D)n, where each X independently is a C, N, O or S atom or a CO, CR1, CR12 or NR1 group; Y is a nitrogen atom or a CR1 group or Y and L taken together form a cyclic group; R7 is a lipophilic group selected from alkyl, alkenyl, mono- or bi-cycloalkyl, aryl, heteroaryl, mono- or bicycloalkylalkyl, mono- or bicycloalkylalkenyl, aralkyl, heteroaryl-alkyl, arylalkenyl, heteroarylalkenyl, all optionally substituted by a group R1; L is an organic linker group containing 1 to 5 backbone atoms selected from C, N, O and S, or a branched alkyl or cyclic group; Lp is a lipophilic organic group selected from alkyl, heterocyclic, alkenyl, alkaryl, cycloalkyl, polycycloalkyl, cycloalkenyl, aryl, aralkyl or haloalkyl group or a combination of two or more such groups optionally substituted by one or more of oxa, thia, aza or R1 groups; D is a hydrogen bond donor group; and n is 0, 1, or 2] or their 3,4-dihydro derivs. were prepared as serine protease inhibitors. Thus, 1-aminoisoquinolin-7-oyl-Dphenylglycine-4-methoxybenzylamide was prepared by amidation of Boc-D-phenylglycine with 4-methylbenzylamine, followed by deprotection and coupling with 1-aminoisoquinoline-7-carboxylic acid trifluoroacetate.

IT 221049-80-5P 221050-78-8P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of aminoisoquinoline peptidyl derivs. as serine protease inhibitors)

RN 221049-80-5 HCAPLUS

D-Proline, (2R)-N-[(1-amino-7-isoquinolinyl)carbonyl]-2-phenylglycyl-3-(2-isoquinolinyl)carbonyl]CN naphthalenyl)-D-alanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 221050-78-8 HCAPLUS

CN L-Proline, (2R)-N-[(1-amino-7-isoquinolinyl)carbonyl]-2-phenylglycyl-3-(2-naphthalenyl)-D-alanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT:

THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 4 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1991:581373 HCAPLUS

DOCUMENT NUMBER:

115:181373

TITLE:

Bispecific monoclonal antibody to cancer cell and to enzyme with prodrug-activating characteristics, and preparation of peptidated anticancer prodrugs

INVENTOR(S): Iwasa, Susumu; Okamoto, Kayoko

PATENT ASSIGNEE(S):

Takeda Chemical Industries, Ltd., Japan

SOURCE:

PCT Int. Appl., 52 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9109134	A1	19910627	WO 1990-JP1631	19901214

W: CA, JP, US RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE EP 505566 19920930 A1 EP 1991-900329 19901214 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE JP 05506563 19930930 T2JP 1991-501001 19901214 PRIORITY APPLN. INFO.: JP 1989-326545 19891215 JP 1990-97323 19900411 JP 1990-301608 19901106 WO 1990-JP1631 19901214 AB

Ab A hybrid bispecific monoclonal antibody (MAb) is provided having specificities against a human cancer cell and a prodrug-activating enzyme. Also provided is a polydoma producing the MAb, an antihuman cancer protein complex (the MAb-prodrug-activating enzyme complex), and methods for using the MAb in combination with an anticancer prodrug for cancer therapy. Preparation of a variety of peptidated anticancer agent prodrugs is described, as is their activity before and after proteolytic cleavage. A hybridoma producing an antihuman transferrin receptor MAb was fused with a hybridoma producing an antiurokinase MAb, and the bispecific MAb produced was purified. A complex of the bispecific MAb and urokinase was incubated with human epidermoid carcinoma cell line A431; this was followed by incubation with the prepared prodrug Boc-Gly-Gly-Arg-Val-adriamycin (Boc = t-butyloxycarbonyl). The prodrug was activated by the bispecific antibody-urokinase complex and showed strong cytotoxicity against the A431

IT 73167-84-7

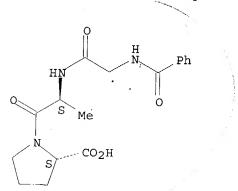
RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction of, in peptidated antitumor prodrug preparation)

RN 73167-84-7 HCAPLUS

CN L-Proline, 1-[N-(N-benzoylglycyl)-L-alanyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L29 ANSWER 5 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1990:74402 HCAPLUS

DOCUMENT NUMBER: 112:74402

TITLE: Hydrolysis of a synthetic angiotensin-converting

enzyme substrate in dog lungs

AUTHOR(S): Linehan, John H.; Bronikowski, Thomas A.; Rickaby,

David A.; Dawson, Christopher A.

CORPORATE SOURCE: Dep. Biomed. Eng., Marquette Univ., Milwaukee, WI,

53233, USA

SOURCE: American Journal of Physiology (1989), 257(6, Pt. 2),

H2006-H2016

CODEN: AJPHAP; ISSN: 0002-9513

DOCUMENT TYPE: Journal LANGUAGE: English

AB The saturable kinetics of the hydrolysis of a synthetic substrate,

benzoyl-Phe-Ala-Pro (BPAP), for angiotensin-converting enzyme (ACE), by the pulmonary endothelium of the dog were evaluated with a multiple indicator dilution method. In the expts., isolated dog lung lobes were perfused with a salt solution containing 5% bovine serum albumin. Boluses containing [3H]BPAP, and various amts. of unlabeled BPAP were injected into the lobar artery, and timed samples of venous effluent were collected. The samples were analyzed to determine the fractional hydrolysis of the injected BPAP. BPAP hydrolysis on passage through the lungs exhibited the saturable behavior and the relative insensitivity to changing flow rate previously described. Since it was described previously that BPAP behaves as if it exists in 2 forms, 1 of which is virtually unhydrolyzable on a single pass through the lungs, a model was formulated to include the influence of the unhydrolyzable form, as well as the saturable hydrolysis of the hydrolyzable form, on the fractional hydrolysis of the injected BPAP. This model provides a new method for estimating the kinetic parameters of BPAP hydrolysis by pulmonary endothelial ACE, and it explains the observation that the fractional BPAP hydrolysis does not vary with flow rate and transit time to the extent predicted by previous models. 69677-91-4

IT

RL: RCT (Reactant); RACT (Reactant or reagent)

(hydrolysis of, by angiotensin-converting enzyme of lung endothelium, kinetics of, model for)

69677-91-4 HCAPLUS RN

L-Proline, N-benzoyl-L-phenylalanyl-L-alanyl- (9CI) (CA INDEX NAME) CN

Absolute stereochemistry.

L29 ANSWER 6 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1989:625889 HCAPLUS

DOCUMENT NUMBER: 111:225889

TITLE: Metabolic and pharmacokinetic activity of the isolated

sheep bronchial circulation

AUTHOR (S): Grantham, C. J.; Jackowski, J. T.; Wanner, A.; Ryan,

U.S.

CORPORATE SOURCE: Mt. Sinai Med. Cent., Univ. Miami, Miami, FL, 33101,

USA

SOURCE: Journal of Applied Physiology (1989), 67(3), 1041-7

CODEN: JAPHEV; ISSN: 8750-7587

DOCUMENT TYPE: Journal LANGUAGE: English

Bronchial vascular metabolic and pharmacokinetic activity toward benzoyl-Phe-Ala-Pro (BPAP), and ADP, adenosine, and PGE2 was studied by developing an isolated sheep bronchial circulation preparation Mean transit time (.hivin.t), uptake, and metabolism were measured by injecting [3H]-labeled substrates with [14C] sucrose into the bronchial artery of sheep lungs stripped clean of parenchymal tissue. After [3H]BPAP the .hivin.t for 3H was the same as for 14C. Thirty-six percent of the

injected BPAP was converted to metabolite ([3H]benzoyl-Phe) in a single pass. An inhibitor of angiotensin-converting enzyme, SQ 20,881, depressed BPAP metabolism by 50%, whereas perfusion of the bronchial circulation with glutaraldehyde reduced metabolism to a basal level. After [3H]ADP the hivin.t for 3H was again the same as for 14C. 3H recovery after 40 pmol [3H]ADP was less (58%) than after 400 nmol [3H]ADP (79%). Twenty-two percent of the injected radioactivity emerged in the effluent as metabolites of ADP for either dose. Adenosine and PGE2 uptake was negligible, and most of the recovered radioactivity in each case was unchanged substrate. Evidently, the bronchial circulation is pharmacokinetically and metabolically active with respect to vasoactive mediators like angiotensin I, bradykinin, and adenine nucleotides, and the enzymes responsible for this metabolic activity line the vascular lumen. 69677-91-4

IT

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(metabolism and pharmacokinetics of, in bronchial circulation)

RN 69677-91-4 HCAPLUS

L-Proline, N-benzoyl-L-phenylalanyl-L-alanyl- (9CI) (CA INDEX NAME) CN

Absolute stereochemistry.

L29 ANSWER 7 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1989:571581 HCAPLUS

DOCUMENT NUMBER: 111:171581

TITLE: Effect of transit time on metabolism of a pulmonary

endothelial enzyme substrate

AUTHOR (S): Dawson, Christopher A.; Bongard, Robert D.; Rickaby,

David A.; Linehan, John H.; Roerig, David L.

CORPORATE SOURCE: Dep. Physiol., Med. Coll. Wisconsin, Milwaukee, WI,

53226, USA

SOURCE: American Journal of Physiology (1989), 257(3, Pt. 2),

H853-H865

CODEN: AJPHAP; ISSN: 0002-9513

DOCUMENT TYPE: Journal LANGUAGE: English

Fractional hydrolysis (M) of the synthetic angiotensin-converting enzyme (ACE) substrate [3H]benzoyl-Phe-Ala-Pro (BPAP) on passage through the isolated dog lung lobe was relatively independent of flow rate and transit time (t). The most commonly expressed explanation for this kind of observation is that recruitment of ACE-containing surface area occurs when flow is increased. To test this, as well as other hypotheses that might explain the behavior of this substrate, M obtained after the 1st pass of a BPAP-containing bolus through isolated rabbit lungs was compared with that obtained after 2 sequential passes through the lungs. In this way, t could be doubled with no change in flow or vascular pressure. When the 2nd pass occurred within a few seconds of the first, M after both the 1st

and 2nd pass was only slightly larger than that after the 1st pass alone. If the time between passes was increased to a few minutes, M after the 2nd pass was substantially increased. These results are contrary to the recruitment hypothesis and suggest that this substrate may exist in alternative forms that are in slow equilibrium relative to the capillary t. When albumin was present in the perfusate, an albumin-bound fraction appeared to be 1 such alternative form. However, expts. carried out using protein-free perfusate suggest the possibility that conformational variants of the substrate may also exist.

IT 69677-91-4

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(metabolism of, by angiotensin-converting enzyme of pulmonary endothelium, transit time effect on)

RN 69677-91-4 HCAPLUS

CN L-Proline, N-benzoyl-L-phenylalanyl-L-alanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L29 ANSWER 8 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1988:523935 HCAPLUS

DOCUMENT NUMBER: 109:123935

TITLE: Pulmonary angiotensin-converting enzyme activity in

the oxygen-toxic sheep

AUTHOR(S): Howell, Ralph E.; Hansen-Flaschen, John H.; Wheeldon,

Eric B.

CORPORATE SOURCE: Sch. Med., Univ. Pennsylvania, Philadelphia, PA, USA

SOURCE: American Review of Respiratory Disease (1988), 138(1),

160-6

CODEN: ARDSBL; ISSN: 0003-0805

DOCUMENT TYPE: Journal LANGUAGE: English

The activity of pulmonary endothelial angiotensin-converting enzyme (ACE) was studied in 5 unanesthetized adult sheep that breathed 100% O via tracheostomy for 3 days and in 4 other sheep that breathed compressed air. In contrast to the sheep that breathed air, the sheep that breathed O developed substantial arterial hypoxemia and hypercapnia, an increased alveolar-to-arterial O gradient, and a slight respiratory acidosis. Morphol. examination of lungs from sheep that breathed O revealed a multifocal distribution of injury, including interstitial edema, capillary endothelial damage, and alveolar epithelial damage. Indicator-dilution methods were used to assess first-pass pulmonary metabolism of the ACE substrate [3H]benzoyl-Phe-Ala-Pro (BPAP) and the apparent kinetics (KM and Vmax) of ACE activity. Pulmonary metabolism of BPAP exhibited saturability, was reduced by an ACE inhibitor (enalaprit), and did not result from the activity of circulating plasma ACE. There was no difference between the 2 groups of sheep in the percent metabolism of either 0.1 µmol BPAP/kg or 1.0

 $\mu\text{mol BPAP/kg}$ or in the KM of BPAP metabolism. In both groups, the Vmax and Vmax/KM decreased as a result of redns. in cardiac output and volume of distribution. To further examine pulmonary endothelial ACE activity, the first-pass pulmonary uptake of an ACE inhibitor, [14C] captopril, was assessed in 4 addnl. sheep that breathed O; [14C] captopril uptake remained unchanged from control. Evidently, in sheep, 3 days of 0 breathing causes moderately severe gas exchange abnormalities and capillary damage without impairing pulmonary endothelial ACE activity.

IT 69677-91-4

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(metabolism of, by lung, angiotensin-converting enzyme in relation to)

69677-91-4 HCAPLUS RN

L-Proline, N-benzoyl-L-phenylalanyl-L-alanyl- (9CI) (CA INDEX NAME) CN

Absolute stereochemistry.

L29 ANSWER 9 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1988:16827 HCAPLUS

DOCUMENT NUMBER: 108:16827

TITLE: Effect of flow and surface area on

angiotensin-converting enzyme activity in rabbit lungs

AUTHOR(S): Moalli, Richard; Pitt, Bruce R.; Gillis, C. Norman CORPORATE SOURCE: Sch. Med., Yale Univ., New Haven, CT, 06510, USA

Journal of Applied Physiology (1987), 62(5), 2042-50 SOURCE:

CODEN: JAPHEV; ISSN: 8750-7587

DOCUMENT TYPE: Journal LANGUAGE: English

Pulmonary angiotensin-converting enzyme (ACE) is located on the luminal surface of pulmonary microvasculature. Multiple indicator-dilution techniques were used to measure pulmonary ACE activity in vivo and in isolated lungs. Apparently, ACE activity is depressed in several forms of acute lung injury. Depression of ACE activity may reflect impaired substrate delivery to enzyme sites because of flow-related reduction of perfused surface area. To assess the role of altered microvascular flow and surface area in the measurement of ACE activity, similar techniques were used to estimate the apparent Km and Vmax of pulmonary ACE in isolated, Krebs-perfused rabbit lungs. Km Is an estimate of the affinity of a synthetic ACE substrate, [3H] PhCO-Phe-Ala-Pro-OH, for ACE and should not be influenced by the rate of substrate delivery to luminal enzyme sites. Conversely, Vmax is an index of the number of ACE sites and should be influenced by perfusion changes that alter the number of perfused sites (recruitment or derecruitment). When isolated lungs were subjected to physiol. maneuvers designed to increase or decrease perfused surface area, apparent Vmax increased or decreased resp. Apparent Km was not altered by these maneuvers. Km And Vmax were independent of changes in perfusion rate when surface area was held constant Thus, these parameters should be

Garcia 10 635696

useful in evaluating perfusion changes in normal and injured lungs. 69677-91-4, Benzoyl-phenylalanyl-alanyl-proline IT RL: RCT (Reactant); RACT (Reactant or reagent) (reaction of, with angiotensin-converting enzyme of lung, kinetics of) RN69677-91-4 HCAPLUS

L-Proline, N-benzoyl-L-phenylalanyl-L-alanyl- (9CI) (CA INDEX NAME) CN

Absolute stereochemistry.

L29 ANSWER 10 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1987:618077 HCAPLUS

DOCUMENT NUMBER: 107:218077

TITLE:

Preparation of LHRH analogs INVENTOR(S):

Horvath, Aniko; Keri, Gyoergy; Gulyas, Tamas; Teplan,

Istvan; Vigh, Sandor; Bokonyi, Gyorgy PATENT ASSIGNEE(S):

Innofinance Altalanos Innovacios Penzintezet, Hung. SOURCE:

Ger. Offen., 15 pp.

CODEN: GWXXBX DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	DE 3700166	A1	19870709	DE 1987-3700166	10070105
	HU 43090	A2	19870928	HU 1986-16	19870105
	HU 194913	В	19880328	1000 10	19860103
	NL 8603291	Α	19870803	NL 1986-3291	7.0061000
	JP 62228099	A2	19871006	JP 1986-309288	19861223
	JP 06031314	B4	19940427	01 1000 300288	19861227
	CH 670830	Α	19890714	CH 1986-5230	10061220
	FI 8605347	Α	19870704	FI 1986-5347	19861229
	FI 85866	В	19920228	11 1000 3347	19861230
	FI 85866	С	19920610		
	SE 8700016	Α	19870704	SE 1987-16	10070100
	GB 2185025	A1	19870708	GB 1987-17	19870102
	GB 2185025	B2	19891228	02 1307 17	19870102
	FR 2595705	A1	19870918	FR 1987-6	10070100
	FR 2595705	B1	19901012	11 1907 0	19870102
	US 4758552	A	19880719	US 1987-177	10070100
	ORITY APPLN. INFO.:		_	HII 1996-16	19870102
AB	Glp-His-Ser-Tyr-X1	-X2-X3-F	ro-X4 (I: X1	l = 0- or m-HNC6H4CO;	19860103
	Phe: $X3 = Arg$ Leu	Glu. v	(4 - Cl-: NIVO	of " inconsco;	$\Lambda Z = Leu, Trp,$

A Phe; X3 = Arg, Leu, Glu; X4 = Gly-NH2, NHEt; Glp = pyroglutamyl) were prepared as LHRH analogs (no data). Glp-His-Trp-Ser-Tyr-Aa-Leu-Gln-Pro-NHEt (Aa = anthranilic acid residue) was prepared using the solution-phase method. Injections containing 1-10 mg I/mL water, saline, or aqueous buffer may be prepared

Garcia 10_635696

RN 111331-69-2 HCAPLUS

CN Luteinizing hormone-releasing factor (swine), 6-(2-aminobenzoic acid)-8-L-glutamine-9-(N-ethyl-L-prolinamide)-10-deglycinamide- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

RN 111331-70-5 HCAPLUS

CN Luteinizing hormone-releasing factor (swine), 6-(2-aminobenzoic acid)-9-(N-ethyl-L-prolinamide)-10-deglycinamide- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

L29 ANSWER 11 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1986:569766 HCAPLUS

DOCUMENT NUMBER:

105:169766

TITLE:

Effects of alveolar pressure on lung

angiotensin-converting enzyme function in vivo

CORPORATE SOURCE:

Toivonen, Hannu J.; Catravas, John D. Dep. Pharmacol. Toxicol., Med. Coll. Georgia, Augusta,

GA, 30912, USA

SOURCE:

AUTHOR(S):

Journal of Applied Physiology (1986), 61(3), 1041-50

CODEN: JAPHEV; ISSN: 8750-7587

DOCUMENT TYPE: Journal LANGUAGE: English

The effects of airway pressure on endothelial plasmalemmal angiotensin-converting enzyme function were studied in rabbit lungs in vivo. Static inflation of the lungs to a pressure of 0 or 5 Torr did not change percent transpulmonary metabolism and Amax/Km ratio (defined as enzyme mass (E) + catalytic constant (Kcat) Km and thus, under normal conditions, an indirect measure of perfused endothelial luminal surface area) compared with control measurements during conventional mech. ventilation. When the inflation pressure was increased to 10 Torr, percent metabolism of 3H-labeled benzoyl-L-phenylalanyl-L-alanyl-L-proline (BPAP) remained unaltered but Amax/Km decreased to 60% of the control value. This decrease was in close relation to the decrease in pulmonary blood flow. Addition of 5 cmH2O pos. end-expiratory pressure (PEEP) to the mech. ventilation also decreased Amax/Km values and pulmonary blood flow but did not influence percent metabolism [3H]BPAP. These results suggest that the detected alterations in apparent enzyme kinetics were more likely due to hemodynamic changes than to alterations in angiotensin-converting enzyme function. Thus, high static alveolar pressures as well as PEEP probably reduced the fraction of perfused microvessels as reflected in changes in Amax/Km ratios. This information should prove useful in interpreting the response of pulmonary endothelial enzymes to injury. IT 69677-91-4

RL: PRP (Properties)

(degradation of, by angiotensin-converting enzyme of lung, kinetics of, alveolar pressure effect on)

RN 69677-91-4 HCAPLUS

L-Proline, N-benzoyl-L-phenylalanyl-L-alanyl- (9CI) (CA INDEX NAME) CN

Absolute stereochemistry.

L29 ANSWER 12 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1984:18361 HCAPLUS

DOCUMENT NUMBER: 100:18361

TITLE: Pulmonary metabolic function in the awake lamb:

effect of development and hypoxia

AUTHOR(S): Pitt, Bruce R.; Lister, George

CORPORATE SOURCE: Sch. Med., Yale Univ., New Haven, CT, 06510, USA

SOURCE: Journal of Applied Physiology: Respiratory,

Environmental and Exercise Physiology (1983), 55(2),

383-91

CODEN: JARPDU; ISSN: 0161-7567

DOCUMENT TYPE: Journal LANGUAGE: English

The effect of postnatal development and acute alveolar hypoxia on pulmonary metabolic function was studied in conscious newborn lambs. ability of the lungs of these animals to metabolize 3H-labeled

Garcia 10_635696

benzoyl-L-phenylalanyl-L-alanyl-L-proline (BPAP) [69677-91-4], a synthetic substrate for angiotensin-converting enzyme (ACE) [9015-82-1], and to remove 14C-labeled 5-hydroxytryptamine (5-HT) [50-67-9] were determined during normoxic and hypoxic conditions at 1 day, 1 wk, and 1 mo of age. Addnl. sheep (8-23-wk-old) were studied acutely as adult controls. BPAP metabolism in the 1-day-old group was 48% and increased slowly to 57% at 1 mo of age and to 79% by 23 wk of age. Pulmonary 5-HT removal was adultlike at birth. Alveolar hypoxia significantly decreased BPAP only in the 1-day-old group and had no significant effect on 5-HT removal over the range of ages studied. These data demonstrate a selective and gradual postnatal development of pulmonary ACE which could be due to alterations in either the affinity or maximum capacity of pulmonary ACE, or increased endothelial cell surface area secondary to rapid growth of small blood vessels in this period. Alveolar hypoxia does not appear to closely regulate either ACE activity or 5-HT removal in conscious lambs >1 day old when trace amts. of substrate are used.

IT 69677-91-4

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(metabolism of, by lung during development, hypoxia effect on)

RN 69677-91-4 HCAPLUS

CN L-Proline, N-benzoyl-L-phenylalanyl-L-alanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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